

ABSTRACT OF THE INVENTION

A selected wavelength variable optical filter for selecting and outputting the signal lights of the desired wavelengths from the light multiplexing light lights of a plurality of wavelengths. When the multiplexing factor of the WDM signal light increases, the number of selected wavelength variable optical filters used in the AOTF device or the like also increases, resulting in increase of manufacturing cost.

The number of filters used in the device can be lowered through introduction of a wavelength selection module which includes a wavelength selecting section for selecting and outputting a plurality of wavelengths from an input light using an external control signal, a demultiplexing means for demultiplexing an output light of the wavelength selecting section into a plurality of wavelengths, and a filter means for filtering an output light of the demultiplexing means for every wavelength bandwidth.